

CONTROL DEVICE FOR A HYDRAULIC DIFFERENTIAL

ABSTRACT OF THE DISCLOSURE

The present invention relates to a control device for hydraulic differentials in vehicles. The object of the invention is to provide a control device for a hydraulic differential, which eliminates the necessity of wheel base devices for distributing of the driving torque, and of the clutch of the vehicle, at improved weight parameters and overall dimensions, and at even distribution of the driving torques for the both directions of rotation. The construction of the inventive device includes two control hydraulic loops having a common gate mechanism, which are integrated in the common driving unit of the differential. The construction further includes separate control branches with electromagnetically actuating of the control devices and devices for smooth engagement and for reversing of the hydraulic flow, safety valves, electromagnetic control devices and throttles.